

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA1157WE

*This certificate issued to*

Texas Skyways, Inc.  
308 Boerne Stage Airfield  
Boerne, TX 78006

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3\* of the Civil Air Regulations.*

\*See Data Sheet 5A6

*Original Product - Type Certificate Number:*

5A6

*Make:*

Cessna

*Model:*

180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J

*Description of Type Design Change:*

Installation of Roto-Master (Rajay) turbocharged Continental O-470-A, O-470-J, O-470-K, O-470-L or O-470-R, engine in accordance with FAA sealed Roto-Master (Rajay) Drawing List No. RJ1550, or later FAA approved revision.

*Limitations and Conditions:*

The limitations and conditions of Data Sheet No. 5A6 apply except as shown on page 3 and 4 of this STC. A copy of this STC must be included in the permanent records of each airplane modified in accordance with this STC.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* December 01, 1965

*Date reissued:* Jan. 14, 1968; Feb. 10, 1982; Oct. 30, 1987;  
Sept. 22, 1995; May 19, 2000;

*Date of issuance:* June 02, 1966

*Date unended:* January 15, 1974; March 21, 1985



*By direction of the Administrator*

*Paul C. Sconyers*  
(Signature)

Paul C. Sconyers  
Associate Manager, ACE-117A  
Atlanta Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA1157WE

Date of Issuance: June 02, 1966

Date Reissued: May 19, 2000

## LIMITATIONS AND CONDITIONS:

1. - Models 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, and 180J (Normal Category)  
as modified by this STC

Engine	Continental O-470-A or -J (Models 180), O-470-K (Models 180, 180A, and 180B) or O-470-L or O-470-R (Models 180C through 180J) modified to incorporate turbochargers in accordance with Supplemental Type Certificate No SE25WE.
Fuel	100/130 Min. Grade Aviation Gasoline
Engine Limits	Unturbocharged – same as original Turbocharged – Take Off – 29.5 in. Hg at 2600 RPM (3 min.) (O-470-J only – 2500 RPM) Max. Continuous – 27.0 in. Hg at 2500RPM
Propeller and Propeller Limits	Same as original except – High pitch setting: Hartzell HC-82XF-1, HC-82XF-6 or HC-A2XF-1/8833 or 8433 30° at 30 in. station. McCauley 2A36C/90M-8 or 90M-2, 2A34C/90A-8 or 90A-2 27° at 36 in. station.
Airspeed Limits	Same as original except – Reduce $V_{ne}$ 5 MPH per 1,000 ft. above 22,000 ft. MSL
Placards	The following placards must be located as shown on Roto-Master (Rayjay) Drawing No. RJ1551, Sheet 2:  “MIN. CONT. CLIMB SPEED TURBOCHARGED METO POWER – C.A.S. 110 MPH”  “FOR EMERGENCY DESCENT IDLE POWER – C.A.S. 160 MPH”  **“TURBOCHARGER OPERATION POWER LIMITS TAKEOFF: 29.5” MAP AT 2600 RPM (3 MIN.) MAX. CONT.: 27.0” MAP AT 2500 RPM”

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 1 year, or both.

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Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA1157WE

Date of Issuance: June 02, 1966

Date Reissued: May 19, 2000

LIMITATIONS AND CONDITIONS: (Continued)

Placards: (Continued)

\*\*\*"TURBOCHARGER OPERATION POWER LIMITS  
TAKEOFF: 29.5" MAP AT 2550 RPM (3 MIN.)  
MAX. CONT.: 27" MAP AT 2500 RPM"

"REDUCE  $V_{NE}$  5 MPH PER 1,000 FT. ABOVE 22,000 FT. MSL"

"THIS AIRPLANE HAS NOT BEEN FAA EVALUATED FOR  
FLIGHTS ABOVE 25,000 FT."

"WIDE OPEN THROTTLE BEFORE ENGAGING TURBOCHARGER"

"100/130 MIN. GRADE AVIATION GASOLINE"

\* For O-470-A, O-470-K, O-470-L, and O-470-R engines only.

\*\* For O-470-J engine only.

FAA approved Roto-Master (Rajay) Airplane Flight Manual Supplement dated June 2, 1966, or later FAA approved revision is required for Models 180, 180A, and 180B.

Limitation of  
Applicability

*of this*  
The approval of this change in type design applies to the basic Cessna 180 Series as noted above. This approval should not be extended to other Aircraft models which other modifications are incorporated unless it is determined that the interrelationship between this change and any previously approved modification will introduce no adverse effect on the airworthiness of these aircraft. This installation is eligible on landplane, seaplane or amphibian aircraft of these models.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

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### TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number \_\_\_\_\_

to *(Name of transferee)* \_\_\_\_\_

*(Address of transferee)* \_\_\_\_\_  
*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

from *(Name of grantor) (Print or type)* \_\_\_\_\_

*(Address of grantor)* \_\_\_\_\_  
*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor *(In ink)*: \_\_\_\_\_